

Department of Electronics Engineering
List of ENCD Students Publications

Sr. #	Title	Conference/Journal	Students
1	An Automated System for the Classification of Bronchiolitis and Bronchiectasis Diseases using Lung Sound Analysis	2023 International Conference on Robotics and Automation in Industry (ICRAI)	Syed Faraz Ali Jaffery
2	Machine learning-based classification of multiple heart disorders from PCG signals	Expert Systems	Muhammad Talal
3	Power of Cepstrum meets EMG: Detecting ALS and Myopathy	2023 3rd International Conference on Digital Futures and Transformative Technologies (ICoDT2)	Faiza Afzal
4	Biofusion: Expanding Biometric Horizons with ECG and PCG Integration	2023 3rd International Conference on Digital Futures and Transformative Technologies (ICoDT2)	Muhammad Asad
3			Abdul Hannan
5	Fall Detection System using a single Accelerometer through Machine Learning	2023 3rd International Conference on Digital Futures and Transformative Technologies (ICoDT2)	Areeb
			Saad Awan
			Aliza Shoukat
6	EMG-based Feature Engineering Approach for Load Classification	2023 2nd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering (EECTE)	Hudda
			Malika Laraib
7	Pattern Analysis for Biometric Authentication using Electrocardiogram Signal	2023 2nd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering (EECTE)	Muhammad Asim
4			Moeen Akhtar
8	DarkNet-19 Based Intelligent Diagnostic System for Ocular Diseases	Iranian Journal of Science and Technology, Transactions of Electrical	Zainoor Ahmad

		Engineering	Hira Shahid
9	Multi-channel EMG signal analysis for italian sign language interpretation	2022 International Conference on Emerging Trends in Smart Technologies (ICETST)	Ramla Saif Muhammad Ahmad
10	Diagnosis of Diabetes Mellitus using Pulse Plethysmograph	2022 International Conference on IT and Industrial Technologies (ICIT)	Mashal Raza Aqsa Arshad
11	Expert hypertension detection system featuring pulse plethysmograph signals and hybrid feature selection and reduction scheme	Sensors	Akram Tallha Amjad Fatima
12	Cucumber Leaf Disease Classification using Local Tri-directional Patterns and Haralick Features	IEEE, 2021 International Conference on Artificial Intelligence (ICAI), Pakistan	Abdul Rehman (17-ENC-50) Zain Tariq (17-ENC-40)
13	Soft computing approach for classification of complex power quality events	IEEE, 2021 International Conference on	Abdullah (17-ENC-32)
14	Automatic Classification of Modulation Schemes under Blind Scenario	IEEE, 2021 International Conference on Artificial Intelligence (ICAI), Pakistan	Taimoor Aslam (17-ENC-39) Zain Tariq (17-ENC-40) Abdul Rehman (17-ENC-50)
15	Detection of Insomnia using Electrocardiography and Electromyography	IEEE, 2021 International Conference on Artificial Intelligence (ICAI), Pakistan	Asra Malik (17-ENC-36)
16	Cardiotocography: An indicator to predict Vaginal and Cesarean Deliveries	IEEE, 2020 International Conference of Smart Systems and Emerging	Zurria Sajid (17-ENC-48)
17	A signal analysis approach towards detection and classification of power quality disturbances	IEEE, 2020 International Conference of Smart Systems and Emerging	Abdullah (17-ENC-32)
18	Vibration Signal Analysis Towards Early Detection of Machine Faults	IEEE, 2020 International Conference of Smart Systems and Emerging Technologies	Muhammad Ahmed (17-ENC-16) Imran Abbas (18-ENC-24)

19	Electrohysterogram based Term and Preterm Delivery Classification System	IEEE, 2020 International Conference of Smart Systems and Emerging	Zurria Sajid (17-ENC-48)
20	Intelligent System for Human Context Recognition	IEEE, 2020 International Conference on Computing and	Ahmad Zahoor (17-ENC-38)
21	Pakistani Phrasal Sign Language Classification using Surface Electromyography	IEEE, 2020 International Conference on Computing and Information Technology (ICCIT-	Fatima Amjad (16-ENC-28)
			Maheen Shakeel (16-ENC-36)
			Anber Shahjehan (16-ENC-1)

	ECG Signal Analysis for Classification of Congenital Heart Defects	IEEE, 2020 International Conference on Computing and Information Technology (ICCIIT-1441), Saudi Arabia	Javeria Mumtaz Ch (16-ENC-35)
12	Electrocardiography based Biometric Verification System	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Mustafa Hayat (17-ENC-29)
			Muhammad Furqan (17-ENC-27)
			Zubair Zahid (17-ENC-13)
13	Classification of Myocardial Infarction using MFCC and Ensemble Subspace KNN	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Zohaib Mushtaq (16-ENC-05)
			Maheen Shakeel (16-ENC-36)
14	Detection of Acute Coronary Syndrome using Electrocardiogram Signal Analysis	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Anber Shahjehan (16-ENC-1)
			Javeria Mumtaz Ch (16-ENC-35)
15	Surface Electromyography based Pakistani Sign Language Interpreter	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Fatima Amjad (16-ENC-28)
			Maheen Shakeel (16-ENC-36)
16	Electrocardiography based System for Characterization of Diabetes	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Muhammad Abbas (16-ENC-22)
			Ali Haider (16-ENC-46)
			Hassan Ali Hashmi (16-ENC-32)
17	Electrooculogram based Communication System for People with Locked-in-Syndrome	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Asra Malik (17-ENC-36)
			Usama Shehzad (18-ENC-32)
18	Electrocardiogram based Gender Classification	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Muhammad Saad (16-ENC-13)
			Adnan Qasim (16-ENC-24)
			Javeria Mumtaz Ch (16-ENC-35)
19	Spectral Analysis of Lungs sounds for Classification of Asthma and Pneumonia Wheezing	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Misha Arooj (15-ENC-22)
20	Wearable Scene Classification System for Visually Impaired Individuals	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Ahmed Zaib (16-ENC-39)
			Aiman Maqsood (16-ENC-23)

21	Machine Bearing Fault Diagnosis System using Tri-Axial Accelerometer	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Muhammad Ahmed (17-ENC-16)
22	Biometric System using PCG Signal Analysis: A New Method of Person Identification	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Hamza Tanveer (18-ENC-13)
			Areeba Zainab (18-ENC-22)
23	Effect of Al-Quran Recitation on Human Physiology	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Hamza Tariq (17-ENC-4)
			Adnan Aslam (17-ENC-20)
24	Deep Learning-based Automatic Morphological Classification of Leukocytes using Blood Smears	IEEE, 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Turkey	Muhammad Bilal (16-ENC-56)
			Fatima Amjad (16-ENC-28)
25	Classification of Coronary Artery Diseases using Electrocardiogram Signals	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Abdul Rehman (17-ENC-50)
26	Emotion Recognition System using Pulse Plethysmograph	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Nadeem Asghar (17-ENC-19)
			Ghulam Rasool (17-ENC-12)
27	Electricity Theft Detection using Empirical Mode Decomposition and K-Nearest Neighbors	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Taimoor Aslam (17-ENC-39)
28	Pattern Analysis for Classification of Power Quality Disturbances	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Abdullah (17-ENC-32)
29	Pattern Analysis Towards Human Verification using Photoplethysmograph Signals	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Ahmed Zaib (16-ENC-39)
			Aiman Maqsood (16-ENC-23)
30	Detection of Subacute Intestinal Obstruction from Surface Electromyography Signatures	IEEE, 2020 International Conference on Emerging Trends in Smart Technologies (ICETST), Pakistan	Zurria Sajid (17-ENC-48)
			Sana Samer (18-ENC-16)
31	Detection of Myocardial Infarction using Pulse Plethysmograph Signals	IEEE, 2019 International Conference on Frontiers of Information Technology (FIT), Pakistan	Asra Malik (17-ENC-36)
32	An Automated System towards Diagnosis of Pneumonia using Pulmonary Auscultations	IEEE, 2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS), Pakistan	Zohaib Mushtaq (16-ENC-05)
			Maheen Shakeel (16-ENC-36)
33	Biometric Authentication System Based on Electrocardiogram (ECG)	IEEE, 2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS), Pakistan	Abdullah Saud (18-ENC-29)
			Zohaib Azhar (18-ENC-26)

34	Prediction of Acute Coronary Syndrome Using Pulse Plethysmograph	IEEE, 2019 4th International Conference on Emerging Trends in Engineering, Sciences and Technology (ICEEST), Pakistan	Areeba Zainab (18-ENC-22)
			Abdullah Saud (18-ENC-29)
35	Automated Detection and Classification of Gastrointestinal Diseases using surface-EMG Signals	IEEE, 2019 22nd International Multitopic Conference (INMIC), Pakistan	Sana Samer (18-ENC-16)
36	Detection of Dilated Cardiomyopathy using Pulse Plethysmographic Signal Analysis	IEEE, 2019 22nd International Multitopic Conference (INMIC), Pakistan	Fatima Amjad (16-ENC-28)
			Muhammad Mohsin (15-ENC-17)
			Gul-e-Saheer (15-ENC-31)
37	Classification of EMG Signals for Assessment of Neuromuscular Disorder using Empirical Mode Decomposition and Logistic Regression	IEEE, 2019 International Conference on Applied and Engineering Mathematics (ICAEM), Pakistan	Muhammad Bilal (16-ENC-56)
			Bilal Aamir (16-ENC-12)
38	System Design for Early Fault Diagnosis of Machines using Vibration Features	IEEE, 2019 International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), Pakistan	Zeeshan Kareem (15-ENC-21)
39	Control System Design, Analysis & Implementation of Two Wheeled Self Balancing Robot (TWSBR)	IEEE, 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), Canada	Mahum Naveed (14-ENC-2)
			Nimra Bibi (14-ENC-1)
40	Embedded System Design for Visual Scene Classification	IEEE, 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), Canada	Zeeshan Kareem (15-ENC-21)
41	A Novel Embedded System Design for the Detection and Classification of Cardiac Disorders	Wiley, 2021, Computational Intelligence Impact Factor: 1.196	Umair Riaz (14-ENC-46)